

BRIDGE CONSISTS OF

- 2 - 73'-6" TYPE III PSC BEAM SPANS ----- SPECIAL DESIGN
- 1 - 121'-0" BULB TEE, 63 IN, PSC BEAM SPAN ----- SPECIAL DESIGN
- 2 - PSC PILE END BENTS ----- SPECIAL DESIGN
- 2 - CONCRETE INTERMEDIATE BENTS ----- SPECIAL DESIGN
- 4 - END POST AND GUARDRAIL ATTACHMENT DETAIL ----- GA. STD. 3054 (9-30-02)
2 - (L = 4'-3"; W = 1'-1"; H = 2'-8")
2 - (L = 6'-9"; W = 1'-1"; H = 2'-8")
- SQUARE PRESTRESSED CONCRETE PILES ----- GA. STD. 3215 (2-22-84)
- BAR BENDING DETAILS ----- GA. STD. 3901 (8-69)
- CHAIN LINK WIRE FENCE ----- GA. STD. 9031N (8-13-85)
- TYPICAL FILL DETAIL AT END OF BRIDGE ----- GA. STD. 9037 (9-99)

TRAFFIC DATA

TRAFFIC ----- ADT = 1,700 (2015)
ADT = 3,000 (2035)

DESIGN SPEED ----- 55 MPH

TRUCKS ----- 14 %

24 HR TRUCKS ----- 20 %

DIRECTIONAL ----- 60 %

UTILITIES

NO UTILITIES ON BRIDGE

GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AND 2008 SUPPLEMENTAL SPECIFICATIONS AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - PLACE AND TIE ALL REINFORCING STEEL IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. DO NOT WELD REINFORCING STEEL.

CHAMFER - CHAMFER ALL EXPOSED CONCRETE EDGES 3/4" UNLESS OTHERWISE NOTED.

RAILROAD SIDE DITCHES - PRIOR TO THE BEGINNING OF CONSTRUCTION, CLEAN THE RAILROAD SIDE DITCHES IN THE CONSTRUCTION AREA IN SUCH A MANNER AS TO PROVIDE POSITIVE DRAINAGE. MAINTAIN THE RAILROAD SIDE DITCHES FREE OF SILT AND DEBRIS UNTIL FINAL ACCEPTANCE. SEE ROADWAY PLANS FOR EROSION CONTROL AND PAYMENT.

PROTECTIVE PLATFORMS - PROVIDE PROTECTIVE PLATFORMS AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 22'-0" ABOVE CSX TRANSPORTATION.

TRAFFIC CONTROLS - SEE ROADWAY PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROL PAYMENT.

EXISTING BRIDGE PLANS - ORIGINAL BRIDGE PLANS MAY BE PURCHASED BY SUBMITTING A REQUEST ON THE GEORGIA DOT WEBSITE AT:

HTTP://WWW.DOT.GA.GOV/DOINGBUSINESS/RESEARCH/PAGES/ROADDESIGNSEARCH.ASPX

THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER FAP-NRS-520-C.

WAITING PERIOD - DO NOT BEGIN WORK AT BENTS 1 AND 4 UNTIL THE COMPLETED END FILLS HAVE BEEN IN PLACE FOR AN ESTIMATED PERIOD OF 45 DAYS.

GENERAL NOTES (CONT.)

PLAN DRIVING OBJECTIVE - SEE SUBSTRUCTURE DETAILS.

PDA TESTING - PERFORM PILE TESTING AT BENTS 2 AND 4 USING THE PILE DRIVING ANALYZER (PDA) IN ACCORDANCE WITH SPECIAL PROVISION SECTION 523. NOTIFY THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS AT 404-608-4720 TWO WEEKS PRIOR TO DRIVING PILES.

WAVE EQUATION - PERFORM WAVE EQUATION ANALYSIS (WEAP) IN ACCORDANCE WITH SPECIAL PROVISION 520. PROVIDE RESULTS OF THE WEAP TO THE GEOTECHNICAL BUREAU OF THE GEORGIA DOT OFFICE OF MATERIALS FOR REVIEW AND APPROVAL TWO WEEKS PRIOR TO DRIVING PILES.

PILOT HOLES - DRILL A 30" DIAMETER PILOT HOLE TO A MINIMUM ELEVATION OF 338.00 AT BENT 2 AND ELEVATION 343.00 AT BENT 3 FOR EACH PILE.

PILE DRIVING - SHOULD PILES FAIL TO OBTAIN DRIVING RESISTANCE AFTER ACHIEVING THE PILE TIP ELEVATIONS SHOWN, ALLOW PILES TO FREEZE A MINIMUM OF 24 HOURS AND RESTRIKE WITH A WARM HAMMER.

BENT NUMBER	PILE TIP ELEVATION
1	332
2	299
3	300
4	306

TEST PILES - DRIVE TEST PILES AT THE FOLLOWING LOCATIONS:

ONE 24 IN SQ PSC X 55 FT AT BENT 2
ONE 18 IN SQ PSC X 81 FT AT BENT 4

VOIDED PSC PILES - THE PSC PILES REQUIRED FOR THE INTERMEDIATE BENT FOUNDATIONS SHALL BE 24 IN SQUARE VOIDED PSC PILES CONFORMING TO GEORGIA STANDARD NO. 3215.

SMOOTH DOWEL BARS - PLACE SMOOTH DOWEL BARS IN FORMED 3" DIAMETER X 12" DEEP HOLES AND GROUT IN PLACE SIMILAR TO ANCHOR BOLTS, SEE SUB-SECTION 501.3.05.B.3 OF THE GEORGIA DOT SPECIFICATIONS. STIRRUPS MAY BE SHIFTED SLIGHTLY TO CLEAR FORMED HOLES.

STANDARD PLAN MODIFICATION - MODIFY THE APPROACH SLAB STANDARD TO INCREASE THE 3/4" EXPANSION JOINT SHOWN BETWEEN THE APPROACH SLAB AND THE BACK FACE PAVING REST AND END POST TO 1 1/2" AT BENT 1. SEE ROADWAY PLANS FOR APPROACH SLAB PAYMENT.

STANDARD PLAN MODIFICATION - MODIFY THE ENDPST STANDARD TO INCREASE THE NUMBER OF P401 AND P701 BARS TO PROVIDE 8 OF EACH BAR IN THE 6'-9" ENDPST.

MASS CONCRETE PLACEMENT - PLACE SUBSTRUCTURE CONCRETE FOR CONSTRUCTION OF INTERMEDIATE BENTS IN ACCORDANCE WITH SECTION 500 OF THE GDOT SPECIFICATIONS AND SPECIAL PROVISION SUB-SECTION 500.3.05.AM - MASS CONCRETE.

GROOVED CONCRETE - GROOVE THE ENTIRE LENGTH OF THE BRIDGE TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

RIDING QUALITY - THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDE QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR LANES OR MORE.

CHAIN LINK FENCE - CHAIN LINK FENCE SHALL BE PAID FOR AS "LF CH LK FENCE, ZC COAT, 6 FT, 9 GA".

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE OFFICE OF MATERIALS. USE ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES FOR MANUAL SHIELDED METAL ARC WELDING.

SALVAGE OF STRUCTURAL STEEL - STRUCTURAL STEEL BEAMS FROM SPANS 3, 4, 5 AND 6 ARE TO BE SALVAGED, DISASSEMBLED, AND TRANSPORTED TO THE DISTRICT 3 STORAGE AREA IN BUTLER, GEORGIA. UNLOAD THE EXISTING STRUCTURAL STEEL AS DIRECTED BY GEORGIA DOT PERSONNEL. NOTIFY THE ASSISTANT DISTRICT MAINTENANCE ENGINEER, DISTRICT 3, TWO WEEKS PRIOR TO DELIVERY.

INCIDENTAL ITEMS - INCLUDE THE COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF WATERPROOFING, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA.	BRF00-0153-01(024)	188	312

DESIGN DATA

SPECIFICATIONS ----- AASHTO LRFD 5TH EDITION, 2010
(DESIGNED FOR SEISMIC PERFORMANCE ZONE 1)

TYPICAL HL-93 LOADING ----- IMPACT ALLOWED

FUTURE PAVING ALLOWANCE ----- 30 LBS PER SQ FT

CONCRETE: SUPERSTRUCTURE ----- CLASS D, f_c = 4,000 PSI
BARRIER ----- CLASS D, f_c = 4,000 PSI
PSC BEAMS ----- CLASS AAA, f_c = SEE BEAM SHEETS
PSC BEAM ALLOWABLE TENSION ----- SEE BEAM SHEETS
SUBSTRUCTURE ----- CLASS AA, f_c = 3,500 PSI

REINFORCEMENT STEEL: ----- GRADE 60, f_y = 60,000 PSI

PRETENSIONING STRANDS: ----- f_p = 270,000 PSI

SUMMARY OF QUANTITIES

PAY ITEM NUMBER	QUANTITY	UNIT	PAY ITEM
211-0200	867	CY	BRIDGE EXCAVATION, GRADE SEPARATION
441-0004	466	SY	CONC SLOPE PAV, 4 IN
500-0100	1132	SY	GROOVED CONCRETE
500-1011	LUMP	LS	SUPERSTR CONCRETE, CL D, BR NO - 1 (381)
500-2100	519	LF	CONCRETE BARRIER
500-3002	373	CY	CLASS AA CONCRETE
507-9003	846	LF	PSC BEAMS, AASHTO TYPE III, BR NO - 1
507-9031	709	LF	PSC BEAMS, AASHTO, BULB TEE, 63 IN, BR NO - 1
511-1000	55472	LB	BAR REINF STEEL
511-3000	LUMP	LS	SUPERSTR REINF STEEL, BR NO - 1 (86101)
520-2218	940	LF	PILING, PSC, 18 IN SQ
520-2224	1730	LF	PILING, PSC, 24 IN SQ
520-3218	1	EA	TEST PILE, PSC, 18 IN SQ
520-3224	1	EA	TEST PILE, PSC, 24 IN SQ
520-4218	1	EA	LOAD TEST, PSC, 18 IN SQ (IF REQD)
520-4224	1	EA	LOAD TEST, PSC, 24 IN SQ (IF REQD)
520-5000	198	LF	PILOT HOLES
523-1100	2	EA	DYNAMIC PILE TEST
540-1101	LUMP	LS	REMOVAL OF EXISTING BR, STA NO. 72+62.00
643-1152	515	LF	CH LK FENCE, ZC COAT, 6 FT, 9 GA

BRIDGE NO. 1



Heath & Lineback Engineers
INCORPORATED
2390 CANTON ROAD, BUILDING 200
MARIETTA, GEORGIA 30066-5393
(770)424-1668

GEORGIA
DEPARTMENT OF TRANSPORTATION
ENGINEERING DIVISION-OFFICE OF BRIDGES AND STRUCTURES

GENERAL NOTES
SR 90 OVER
CSX TRANSPORTATION

MACON COUNTY BRF00-0153-01(024)

NO SCALE MAY 2013

DRAWING NO. 35 - 002
BRIDGE SHEET 2 OF 13

DATE	REVISIONS	BY

DESIGNED	KAK/BCB
DRAWN	JJY

CHECKED	MS/BKA/GBL
DESIGN GROUP	DDF

REVIEWED	WMD/DLC
APPROVED	BFR